INORGANIC DATA QUALITY ASSURANCE REVIEW

Site Name: Site Code: Castle Drive LDFL

Case Number:

20226

Laboratory:

AATS -- Broken Arrow, Ok.

Soil Samples:

MFAP59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69.

The data package consisted of eleven soil samples analyzed for total metals.

- 1. Analytical Parameters: All samples were analyzed using low concentration methods.
- 2. Holding Times: Holding time limits were reported as not having been exceeded.
- Calibration Verification: All initial calibration verification results were within control limits. All
 continuing calibration verifications were reported to be within control limits.
- CRDL Standards: the following CRDL standards were out of control limits: antimony and selenium. Positive hits within the affected range were "j" due to CRDL standard criteria.
- 5. Blanks: calibration and prep blank results associated to a particular group of samples are used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Typically, if sample concentration is greater than five times a blank value that is not considered a common lab artifact, no qualification is needed. If sample concentration is greater than ten times a blank value and is considered a common lab artifact, no qualification is needed. If the reported value is less than stated above, qualifications are applied in accordance with guidance. No field blank/trip blank/rinsate blank/ were reported to be associated with this SDG. Lab blanks as follows were reported as containing contamination greater than the IDL, but less than the CRDL: aluminum, antimony, cadmium, copper, iron, lead, potassium, selenium, silver, & thallium. Results > CRQL but less than 5x the blank were affected in cadmium. Affected samples qualified as per guidance.

Some copper blanks reportedly were subject to interference which resulted in a negative value. The copper fraction was qualified as "j" in samples 64 & 69 due to this criteria.

- 6. Matrix Spike Recoveries: Antimony & mercury were flagged by the lab with an "N" qualifier due to "R out of control limits. The data reviewer flagged these data "j", estimated. Previous reviewers rejected antimony data due to the extremely low "R". However, since the sample result was below detection limits the data reviewer believes that a "j" for antimony samples is more appropriate.
- 7. Duplicates: Laboratory duplicates were flagged with "*" by the lab indicating the RPD was out of control limits. The following data were reportedly affected: aluminum, calcium, chromium, & selenium. Affected data were qualified "j". MFAP59 & 60 were reportedly field duplicates of each other. magnesium, potassium, vanadium, & zinc were qualified in samples 59 & 60 due to gross variation in sample results. Selenium sample results are qualified as estimated due to the exceedance of the control limit.

- 8. Laboratory Control Samples: No qualifications were performed due to LCS.
- 9. ICP Interference Check Sample (ICS): ICS results were within control limits.
- 10. ICP Serial Dilution: no qualifications were performed due to ICP serial dilution criteria.
- 11. Overall Assessment: Some laboratory duplicate results were out of control limits. Blank concentrations were above the IDL for some analytes. Matrix spike recoveries were low for mercury and antimony. Field duplicate results reported required qualification of some data. The lab duplicate for selenium exceeded control limits. Other technical requirements appear to have been met.

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 Concentrations: UG/KG

ompiled	by:	FLUOR	DANIE

	Inorgan	Sample I.D.	MEADSO		MFAP60		MF P61		MFAP62		MFAP63	-	MFAP64		MFAP65	_
		Marix			SOIL	-	SOIL	-	SOIL	-	SOIL	-	SOIL	-	SOIL	-
	Pe	rcent Solids	79.2		79.4	-	83.6	_	82.1	-	84.6		84.3		79.5	_
			SS-01		SS-02		SS-03		55-04		SS-05		SS-06		SS-07	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	10
ALUMINUM	7429-90-5	INO	26200	J	38800	J	24500	J	28700	J	31303	3	14100	J	27500	J
ANTIMONY	7440-36-0	INO	4.8	UJ	4.9	J	4.5	UJ	5.4	J	4.5	UJ	4.5	UJ	4.8	U
ARSENIC	7440-38-2	INO	6.6		5.6	D-III	6		5.1	171111	5.2		1.4		4.5	Т
BARIUM	7440-39-3	INO	205	This is	208	000	261		259	100	215		63.5		151	Г
ERYLLIUM	7440-41-7	INO	1	1	1.2		0.83		0.95		0.93		0.53		0.92	
ADMIUM	7440-43-9	INO	0.72	В	0.81	B	0.48	U	0.62	В	0.55	8	0.73	8	0.57	8
ALCIUM	7440-70-2	INO	124000	J	15000	3	119000	J	91300	J	122000	J	75500	J	84600	12
HROMIUM	7440-47-3	INO	23.7	J	34.9	J	22.3	J	24.5	J	29.1	J	7.3	3	28.1	13
OBALT	7440-48-4	INO	8.7	1	7.8		10.6	Torra	12.3		7		6.7		6.7	Т
OPPER	7440-50-8	INO	21.8		16.3		11.4		17.3		14.8		7.8	J	11.4	T
RON	7439-89-6	INO	17700		21400		15300		17500		16100	100	2470		16500	E
EAD	7439-92-1	INO	19.2		14.9		15.4		55.8		20.9		12.5		14.5	
MAGNESIUM	7439-95-4	INO	4060	J	5290	J	3610		4050		4410		6240	100	4130	Г
MANGANESE	7439-96-5	INO	874	NEU.	729		995		1480		723		320		618	Г
MERCURY	7439-97-6	INO	0.21	J	0.13	UJ	0.15	J	0.17	J	0.12	UJ	0.13	J	0.23	J
NICKEL	7440-02-0	INO	15.9	1,000	14.8		19.2		19.2		16		17.7		13.1	
OTASSIUM	7440-09-7	INO	2600	J	4130	J	1770		2440		2640		2130		2420	T
ELENIUM	7782-49-2	INO	1.4	J	2.3	J	1.4	J	1.9	J	1.4	J	0.95	UJ	1.1	J
ILVER	7440-22-4	INO	0.76	U	0.76	U	0.72	U	0.73	U	0.71	U	0.71	U	0.75	Ū
ODIUM	7440-23-5	INO	183	7	209		140		265		468		553		245	T
HALLIUM	7440-28-0	INO	1.8	U	1.8	U	1.7	U	1.7	U	1.7	U	2.1	U	1.8	U
ANADIUM	7440-62-2	INO	47.4	J	65.8	1	49.2		57.5		53.3		1.4	U	52.2	1
TINC	7440-66-6	INO	55.6	J	73.7	1	41.4		79		59		74.7		45.4	T
YANIDE		INO	0.63	U	0.63	U	0.6	U	0.61	U	0.59	U	0.50	U	0.63	Δv

- LEGEND
 INO Inorganic
 2 Analytical results' Qualifier (listed below).
 8 Analytical sesults' Qualifier (listed below).
 9 Analytic was detected above the CRDL but below SX Blank Concentration.
- The associated value is an estimated quantity.
- A Data for analyte is unusable.
- U The material was analyzed for but was not detected above the level of the associated value.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

H Beday/Serame

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL
Case Number: 20256
Concentrations: UG/KG
Compiled by: FLUOR DANIEL

	Inorga	Sample I.D.	MEADEE		MFAP67	-	MFAP68	-	MFAP69	-	-	-	-	-	
		Marix			SOIL	-	SOIL		SOIL	-		-	-		-
		Percent Solids	78.1		82 3	-	71.3	-	79.1	-		+			-
		Location: and or			SD-09		SD-10		SD-11			1			
	,	Sample Description:		_		-									1
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	0	Concentration	0	Concentration	0	Concentration C	Concentration	0	Concentration	4
ALUMINUM	7429-90-5	INO	32000		19900		12600		17200			1			1
ANTIMONY	7440-36-0	INO	4.9	UJ	4.6	UJ	5.3	UJ	4.8	UJ					1
ARSENIC	7440-38-2	INO	5.1		11.7		6.6		5						1
BARIUM	7440-39-3	INO	145		69.4		87.6		247						1
BERYLLIUM	7440-41-7	7 INO	1		0.77		0.38		0.54						1
MUMMOA	7440-43-9	INO	0.83	В	0.49	U	0.56	U	0.63	В					1
CALCIUM	7440-70-2	INO	106000	J	236000	J	220000	J	98900						1
MUMORHO	7440-47-3	INO	29.9	J	64.1	J	15.6	J	16.4						4
COBALT	7440-48-4	INO	8.4		6.5		6		10.2						1
COPPER	7440-50-6	INO	20.6		9.2		9.7		8.2						4
RON	7439-89-6	INO	19800		18900		11800		12000						4
EAD	7439-92-	1 INO	15.5		15.5		14.4		15.5						4
MAGNESIUM	7439-95-4	INO	5290	*	5190		2850	7	2790						4
MANGANESE	7439-96-5	INO	916		378		854		947						4
MERCURY	7439-97-6	INO	0.15	3	0.15		0.19		0.13						4
NICKEL	7440-02-0		14.1		14.7		14.2		15.3						4
POTASSIUM	7440-09-1	7 INO	3270	1019	2540		1300		1110						4
BELENIUM	7782-49-2	2 INO	1.4		0.97		1.1			UJ					4
HLVER	7440-22-4	INO	0.77	U	0.73		0.84		0.76						4
BODIUM	7440-23-5	INO	348		733		332		355						4
HALLIUM	7440-28-0	INO	1.8		1.7			U	1.8						4
ANADIUM	7440-62-2	2 INO	56.6		66		33.2		37.1						4
ZINC	7440-66-6	INO	59.6		66.4		39.8		33						4
CYANIDE		INO	0.64	U	0.61	U	0.7	U	0.63	U				-	1

- EGEND
 IND Inorganic
 2 Analytical results' Qualifler (listed below).
 8 Analytical results' Qualifler (listed below).
 9 Analyte was detected above the CRDL but below SX Blank Concentration.
 1 The associated value is an estimated quantity.

- H Data for analyte is unusable.
 U The material was analyzed for but was not detected above the level of the associated value.
 U The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

INORGANIC DATA QUALITY ASSURANCE REVIEW

Site Name:

Castle Drive LDFL

Site Code: Case Number:

20226

Laboratory:

AATS -- Broken Arrow, Ok.

Water Samples:

MFAP70, 71, 72, 73, 74, 77, 78, 96.

The data package consisted of eight water samples analyzed for total metals and cyanide.

- 1. Analytical Parameters: All samples were analyzed using low concentration methods.
- 2. Holding Times: Holding time limits were reported as not having been exceeded.
- 3. Calibration Verification: calibration verifications were reported to be within control limits.
- CRDL Standards: the following CRDL standards were out of control limits: silver and arsenic.
 Positive hits within the affected range were "j" due to CRDL standard criteria.
- 5. Blanks: calibration and prep blank results associated to a particular group of samples are used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Typically, if sample concentration is greater than five times a blank value that is not considered a common lab artifact, no qualification is needed. If the reported value is less than 'tated above, qualifications are applied in accordance with guidance. No field blank/trip blank/rinsate blank/ were reported to be associated with this SDG. Lab blanks as follows were reported as containing contamination greater than the IDL, but less than the CRDL: cadmium, lead, selenium, sodium & vandium. Sodium in sample 78 & selenium in sample 77 and vanadium in sample 71 were qualified as per guidance.
- Matrix Spike Recoveries: silver was flagged by the lab with an "N" qualifier due to %R out of control limits. The data reviewer flagged these data "j", estimated.
- 7. Duplicates: Laboratory duplicates were flagged with "*" by the lab indicating the RPD was out of control limits. The following data were reportedly affected: iron. Affected data were qualified "j". MFAP72 & 74 were reportedly field duplicates of each other. Although no gross variations were reported in the field duplicate pairs, previous data reviewers recommended the qualification of iron due to duplicate criteria.
- Laboratory Control Samples: No qualifications were performed due to LCS.
- 9. ICP Interference Check Sample (ICS): ICS results were within control limits.
- 10. ICP Serial Dilution: manganese was qualified due to ICP serial dilution criteria.
- 11. Method of Standard Addition: No qualifications performed due to MSA criteria.
- Overall Assessment: Some laboratory duplicate results were out of control limits. Blank concentrations were above the IDL for some analytes. Matrix spike recoveries were out of control

limits for silver. The lab duplicate for iron exceeded control limits. FAA analytical spikes were out of control limits for arsenic (samples 70, 71, 72, 73, 74, & 96), lead (for sample 96), selenium (for samples 78 & 96), & thallium (for samples 70, 73, & 96). Some cyanide sample were qualified as estimated because they were not properly preserved. Other technical requirements appear to have been met

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number:

Concentrations: Compiled by:

FLUOR DANIEL

		Sample I.D Marix rcent Solids	MFAP70 WATER	MFAP7			MFAP72 WATER		MFAP73 WATER		MFAP74 WATER		MFAP77 WATER		MFAP78 WATER	
			GW-16	GW-17			GW-14		GW-19		GW-20		GW-12		L-15	
COMPOUND NAME	CAS NO.	CLASS	Concentration Q	Conce	ntration	3	Concentration	0	Concentration C	3	Concentration	a	Concentration	0	Concentration	1 0
ALUMINUM	7429-90-5	INO	215		202		44		44 U		57.6		227			U
ANTIMONY	7440-36-0	INO	23 U		23		23		23 U		23 1		23			U
ARSENIC	7440-38-2	INO	10.5 J			UJ		UJ	36 1	1.1	3 (IJ	11	J		u
MUIRAE	7440-39-3	INO	90.5		76.2		47.7	000	70.1		45.8		771			U
BERYLLIUM	7440-41-7	INO	1 U			U	1		1 0		1 (U		U
CADMIUM	7440-43-9	INO	3 U			U	3	U	3 U		3 (J		U		U
CALCIUM	7440-70-2	INO.	227000	**	184000	**	151000		384000	1	142000		150000			U
CHROMIUM	7440-47-3	INO	6.3		6.2		5		5 U		5 (U		U
COBALT	7440-48-4	INO	34			U	6		6 U		6 (16.4			U
COPPER	7440-50-8	INO	10.7		11.9		6		13.6		6 1		10.4			U
RON	7439-89-6	INO	9550 J		179	J	324	J	113 J		96.2	1	814	J		U,
CEAD	7439-92-1	INO	1 U		2.5		1	U	1 0		1 4	3	4			U
MAGNESIUM	7439-95-4	INO	26800		25300		27200		44700		25700		13100			U
MANGANESE	7439-96-5	INO	2250 J		105		588	3	885 J		552 .		1230			U.
MERCURY	7439-97-6	INO	0.2 U		0.2		0.2		0.2 U		0.2		0.2	U		U
NICKEL	7440-02-0	INO	19.4			U	7	U	7 U		7 (3	51.2			U
POTASSIUM	7440-09-7	INO	1990		1510		2680		3630		2930		1750		248	U
BELENIUM	7782-49-2	INO	2 U			U	2		2 U		2 (2.1			U.
SILVER	7440-22-4	INO	7 U.	1	8.6	3	7	UJ	7 U.	J	7 (IJ		UJ		U,
SODIUM	7440-23-5	INO	73300	7	159000		368000		364000		351000	7-7	78700		2220	
HALLIUM	7440-28-0	INO	4 U.	1		U	4	U	40 U.		4 1		4	U		U
VANADIUM	7440-62-2	INO	5 U		6.6	В	5	U	5 U		5 1	,	21.4			U
ZINC	- 7440-66-6	INO	8.5		47		3.9		6.1	- 3	4.4		16			U
CYANIDE		INO	10 U.		10	UJ	10	UJ	10 U	3	10 1	IJ	10	UJ	10	U,

| NO - Inorganic
| Analytical results' Qualifier (listed below).
| Analyte was detected above the CRDL but below 5X Blank Concentration.
| The associated value is an estimated quantity.
| Data for analyte is unusable.
| The material was analyzed for but was not detected above the level of the associated value.
| The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number:

Concentrations:

Compiled by:

FLUOR DANIEL

	Inorgan	ic Traffic No.										-				
		Sample I.D		-	-	_			-	-		_				
			WATER	-	-	-		-	-	-	-	_				_
		Location and or Sample Description	GW-13													
COMPOUND NAME	CAS NO.	CLASS	Concentration	0	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	0	Concentration	6
ALUMINUM	7429-90-5	INO	44													
ANTIMONY	7440-36-0	INO	23													
ARSENIC	7440-38-2	INO	6.2							110						
BARIUM	7440-39-3	INO	25.2											0 11		
BERYLLIUM	7440-41-7	INO		U												
CADMIUM	7440-43-9	INO		U												
CALCIUM	7440-70-2	INO	460000	-												
CHROMIUM	7440-47-3	INO		U						-						
COBALT	7440-48-4	INO		U				_								
COPPER	7440-50-8	INO	10.2													
IRON	7439-89-6	INO	172													-
LEAD	7439-92-1	INO		UJ												
MAGNESIUM	7439-95-4	INO	144000		-											
MANGANESE	7439-96-5	INO	877		-	-				-						-
MERCURY	7439-97-6	INO	0.2		-	-		-	-							-
NICKEL	7440-02-0	INO		U	-	-			-					_		-
POTASSIUM	7440-09-7	INO	11500		-					_						
SELENIUM	7782-49-2	INO		UJ	-		-			-						-
SILVER	7440-22-4	INO		nı	-		-		-		-					-
SODIUM	7440-23-5	INO	300000		-	-	-				-					-
THALLIUM	7440-28-0	INO		UJ	-									_		-
VANADIUM	7440-62-2	INO		U	-				-							-
ZINC	7440-66-6	INO	8.6			**	,									-
CYANIDE		INO	10	UJ										12		1

- LEGEND
 INO Inorganic
 2 Analytical results' Qualifier (listed below).
 8 Analyte was detected above the CROL but below 5X Blank Concentration.
- J The associated value is an estimated quantity.
- R Data for analyte is unusable.
- U The material was analyzed for but was not detected above the level of the associated value
 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

ORGANIC DATA QUALITY ASSURANCE REVIEW

Site Name:

Castle Drive LF

Site Code:

20266

Case Number:

Laboratory:

Western Research Institute -- Laramie Wy.

Soil Samples:

FAA43, 44, 45, 46, 47, 48, 49, 50, 51, 52, & 53.

Water Samples: FAA54, 55, 56, 57, 58, 61, 62, & 80.

The data package consisted of eleven soil and eight water samples analyzed for volatile organics, semivolatile organics and pesticides/PCB's.

- Analytical Parameters: samples were analyzed using multi-media, multi-concentration protocols. 1.
- 2. Holding Times: Holding time limits were reported as not having been exceeded.
- 3. Instrument Tunings: No qualifications were performed due to instrument tuning criteria.
- Calibration Verification: acetone exceeded QC limits for %D & %RSD. No positive hits were reported for acetone although the detection limit would be considered estimated.
- 5. Blanks: Field blank results associated to a particular group of samples must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Typically, if sample concentration is greater than five times a blank value that is not considered a common lab artifact, no qualification is needed. If sample concentration is greater than ten times a blank value and is considered a common lab artifact, no qualification is needed. If the reported value is less than stated above, qualifications are applied in accordance with guidance. Lab blanks for VOAs (soils) were reported as containing common lab artifacts such as acetone (5j), & 2-butanone (7J) were reported. The BNA soil blank SBLK3 repotedly contained dibutylphthalate (80j), and BEHP (81j). Qualifications in accordance with guidance were made to the affected results. No contamination was reported in the Pest/PCB blanks.
- Matrix Spike Recoveries: No qualifications were performed due to MSD criteria.
- Duplicates: sample FAA43 & 44; along with 58 & 56 were reported as duplicate sample pairs. No gross variations in duplicate results were reported. No qualifications were performed due to duplicate criteria.
- SMC/Surrogates: Surrogate exceeded control limits for a variety of Pest/PCB samples; two surrogates (DCB) were out of control limits for pesticide blank PBLK01. TCX 1 recoveries were zero for eleven samples including pesticide blank PBLK02. For soil sample FAA43 DCB 1, DCB 2, & TCX 1 were all reported at 151%; the upper limit is 150%. Since there were no positive hits reported, current guidance does not call for qualifications to the pesticide data.
- Target Compound Identification and Quantification: No qualifications performed due to compound identification and quantification.
- 10. General Assessment: Blanks contained some contamination. %RSD and %D were out of control

limits for acetone. Pesticide surrogate recovery were out of control limits for a variety of samples including the blank.

Site Name and Code: CASTLE DRIVE LANDFILL

Case Number: Concentrations:

Compiled by:

ug/kg Fluor Daniel, Inc.

		Sample I.D Marix Percent Solids Location and or Sample Description	FAA 43 SOIL 77 SS-01	FAA 44 SOIL 76 SS-02	FAA 45 SOIL 81 SS-03	FAA 45 SOIL 80 SS-04	FAA 47 SOIL 83 SS - 05	FAA 48 SOIL 82 SS-06	7AA 49 SOIL 78 SS-07
COMPOUND NAME	CAS NO.	CLASS	Concentration Q	Concentration Q	Concentration Q				
VINYL CHLORIDE	75-01-4	VOA	13 U	13 U	12 U	12 U	. 12 U	12 U	13 U
METHYLENE CHLORIDE	75-09-2	VOA	1 1	13 U	12 U	12 U	12 U	12 U	13 0
ACETONE	67-64-1	VOA	13 U	13 U	150 J	12 U	12 U	12 U	13 U
1 1 DICHLOROETHANE	75-34-3	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U
1.2 DICHLOROETHANE	540-59-0	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U
BENZENE	71-43-2	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U
TOLUENE	108-88-3	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U
CHLOROBENZENE	108-90-7	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U
ETHYLBENZENE	104-41-4	ACV	13 U	13 U	12 U	12 U	12 U	12 U	13 U
XYLENE	1330-20-7	VOA	13 U	13 U	12 U	12 U	12 U	12 U	13 U

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticides/PCB Analysis

2 - Analytical results' Qualifier (listed below).

3 - Analytical results' Qualifier (listed below).

4 - Analytical results' Qualifier (listed below).

5 - Analytical results' Qualifier (listed below).

6 - Data for analytic is an estimated quantity.

7 - Data for analytic is unusable.

7 - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise

Site Name and Code: CASTLE DRIVE LANDFILL Case Number: 20266

Concentrations: Compiled by: ug/kg Fluor Daniel, Inc.

		anic Traffic No. Sample I.D Marix: Percent Solids	FAA 50		FAA 51 SOIL		FAA 52 SOIL		FAA 53 SOIL	
		Location: and or Sample Description:	SS-08		SD-09		SD-10		SD-11	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	10
VINYL CHLORIDE	75-01-4	VOA	13	11	1	-		-	Concentiation	u
METHYLENE CHLORIDE	75-09-2	VOA	13		13		13		13	U
ACETONE	67-64-1	VOA	13		13		13		1	J
1,1 DICHLOROETHANE	75-34-3	VOA	13		13		13		13	U
1,2 DICHLOROETHANE	540-59-0	VOA	13		13		13		13	U
BENZENE	71-43-2	VOA	13		13		13		13	U
TOLUENE	108-88-3	VOA	13		13		13		13	U
CHLOROBENZENE	108-90-7	VOA	13		13		13		13	U
ETHYLBENZENE	104-41-4	VOA	13		13		13		13	
XYLENE	1330-20-7	VOA	13		13 13		13		13	U

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticides/PCB Analysis

Q - Analytical results' Qualifier (listed below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

H directory/filename

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266

Concentrations: Compiled by:

ug/l Fluor Daniel, Inc.

		ercent Solids Location:	WATER		FAA 58 WATER GW-20		FAA 61 WATER GW-12		FAA 62 WATER		FAA 80 WATER GW-13
METHYLENE CHLORIDE 7		and or Sample Description:		•	Concentration	0	Concentration	Q	Concentration	Q	Concentration Q
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q		-	3	-	10	U	10 U
	75-01-4	VOA	10		10		10		10		10 U
VINYL CHLORIDE	F 75-09-2	VOA	10		10		10		10		10 U
ACCTONE	167-64-1	VOA	10			U	2		13		10 U
DICLII ODOETHAN	75-34-3	VOA		Ü		U	7	J		J	10 U
1,2 DICHLOROETHANE	D4U-39-U	VOA		U		U	10		20		10 U
BENZENE	11-43-2	VOA	10	U		U	10			U	10 U
TOLUENE	108-88-3	VOA		U		U		Ü		J	10 0
CHLOROBENZENE ETHYLBENZENE	104-41-4	VOA		U		U	- 10	U	17	1	1010
XYLENE	1330-20-7	VOA	1	, 0	1						

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi-volatiles)

 PEST Pesticides/PCB Analysis

 O Analytical results' Qualifier (listed below).

 B Analyte was detected above the CRDL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.

 R Data for analyte is unusable.

 U The material was analyzed for but was not detected above the level of the associated value.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/L
Fluor Daniel, Inc.

Organic Traffic No.

ug/L Fluor Daniel, Inc.

	Р	ercent Solids	WATER	_	FAA 55 WATER		FAA 56 WATER
		Location: and or Sample Description:			GW-17		GW-14
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration (
VINYL CHLORIDE	75-01-4	VOA	12	11	100		
METHYLENE CHLORIDE	75-09-2	VOA	12		10		10 U
ACETONE	67-64-1	VOA			10		10 U
1,1 DICHLOROETHANE	75-34-3	VOA	12		10		3 J
1,2 DICHLOROETHANE	540-59-0	VOA	12		3		10 U
BENZENE	71-43-2	VOA	12		10		10 U
TOLUENE	108-88-3	VOA	12		2		10 U
CHLOROBENZENE	108-90-7	VOA	12		. 10		10 U
ETHYLBENZENE	104-41-4	VOA	12		3		10 U
	1330-20-7	VOA	12		10		10 U
		TON	12	U	10	U	10 11

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi --volatiles)

 PEST Pesticides/PCB Analysis

 O Analytical results' Qualifier (listed below).

 B Analytical results' Qualifier (listed below).

 J The associated value is an estimated quantity.

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 U The material was analyzed for but was not detected above the level of the associated value.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/kg
Compiled by: Fluor Daniel, Inc.

		Sample I.D.		_	FAA 44 SOIL		FAA 45 SOIL		FAA 46 SOIL		FAA 47		FAA 48		FAA 49	_
		Percent Solids	77		76		81	-		-	SOIL	-	SOIL		SOIL	
		Location		_	SS-02	_	SS-03	-	80		63		82		7	8
		and or Sample Description:					55-03		SS-04		SS-05		\$8-06		SS-07	
COMPOUND NAME	CAS NO	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentra tion	0 0
HENOL	91-20-3	ABN	430	U	430	u	410	11	410	11	400		-	-	-	+
4 DICHOROBENZENE	106-46-7	ABN	430		430		410		410				400			o u
NAPHTHALENE	91-20-3	ABN	430		430		410		410		400		400			0 0
HENANTHRENE	85-01-8	ABN	430		430		410				400		400			0 0
LUORANTHRENE	206-44-0	ABN	430		430		410		180		400		400			0 0
YRENE	129-00-0	ABN	430		430				150		400		400		420	OU
HENZO (A)		1001	430	-	430	U	410	U	210	J	400	U	400	U	420	U
ANTHRACENE	56-55-3	ABN	430			-	-									T
CHRYSENE	218-01-9	ABN	430		430		410		43		400	U	400	U	420	טופ
-N-BUTYLPHALATE		ABN	430		430		410		120		400		400	U		U
BIS (2-ETHYLHEXY I)	04-14-5	ADN	430	U	430	U	410	U	410	U	400	U	400	IJ		U
HTHALATE	117-81-7	ABN		-												+
BENZO (B)	11/-81-/	ABN	430	U	430	U	430	U	410	U	400	U	400	U	430	u
LUCRANTHENE															750	10
	205-99-2	ABN	430		430		410	U	90	3	400	17	400	11	400	u
ENZO (A) PYRENE	50-32-8	ABN	430	U	430	U	410	U	57		400		400			Ü
NDENO (1,2,3-CD)						000				-	400	-	*00		420	U
YRENE	193-39-5	ABN	430	U	430	U	410	U	37	3	400	**	440			+
BENZO (G,H,I)							1.0		31		400	_	440	U	420	U
ERYLENE	191-24-2	ABN	430	U	430	U	410	H	43	1	400	**				1
					100		410	-	43	*	400	U	400	U	420	U
																+
-							-									I
-				_		-	and the second second second second second	-		1000		1111				1
										-		_		$\overline{}$		-
GEND																L

Site Name and Code: CASTLE DRIVE LANDFILL

Case Number:

Concentrations: Compiled by:

ug/kg Fluor Daniel, Inc.

	Organ	Sample I.D.	EAA 50	_	FAA 51	_	FAA 52	_	FAA 53	-
		Marix		-	SOIL	-	SOIL	-	SOIL	-
	0.	ercent Solids	76	-	78	-	75	-	77	-
		Location: and or Sample Description:	SS-08		SD-09		SD - 10		SD-11	
COMPOUND NAME	CAS NO.	CLASS	Concentration	a	Concentration	Q	Concentration	Q	Concentration	a
PHENOL	91-20-3	ABN	430	U	420	U	440	u	430	U
1.4 DICHOROBENZENE		ABN	430	U	420		440	U	430	
NAPHTHALENE	91-20-3	ABN	430	U	420	U	440	U	430	U
PHENANTHRENE	85-01-8	ABN	430	U	420	U	56	J	430	U
FLUORANTHRENE	206-44-0	ABN	430	U	420	U	130	J	430	U
PYRENE	129-00-0	ABN	430	U	420	U	94	J	430	U
BENZO (A)										
ANTHRACENE	56-55-3	ABN	430	U	420	U	47	3	430	U
CHRYSENE	218-01-9	ABN	430	U	420	U	74	J	430	U
DI-N-BUTYLPHALATE	84-74-2	ABN	430	U	610	U	560	U	490	U
BIS (2-ETHYLHEXY I)										
PHTHALATE	117-81-7	ABN	430	U	420	U	520	U	2700	
BENZO (B)										
FLUORANTHENE	205-99-2	ABN	430	U	420	U	100	J	430	U
BENZO (A) PYRENE	50-32-8	ABN	430	U	420	U	56	J	430	U
INDENO (1,2,3-CD)										
PYRENE	193-39-5	ABN	430	U	420	U	49	J	430	U
BENZO (G,H,I)										
PERYLENE	191-24-2	ABN	430	U	420	U	45	3	430	U

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Neutral (semi - volatiles)

PEST - Pestcides/PCB Analysis

Q - Analytical results' Qualifier (listed below).

B - Analytic was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

H - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL Case Number: 20266

Concentrations:

Compiled by:

Fluor Daniel, Inc.

	Orga	nic Traffic No. Sample I.D			FAA 58	-	FAA 61			_		tens
		Marix:	WATER		WATER		WATER		FAA 62 WATER		FAA 80 WATER	
		Location: and or Sample Description:	GW-19		GW-20		GW-12		L-15		GW-13	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	To	Concentration	a	Concentration	-		4100.0
PHENOL	91-20-3	ABN	10	1		-		-	Concentration	9	Concentration	0
1 4 DICHOROBENZENI	106-46-7	ABN	10		10		10		10	U	10	u
NAPHTHALENE	91-20-3	ABN	10		10		10		10	U	10	
PHENANTHRENE	85-01-8	ABN	10		10		10		0.6	J	10	
FLUORANTHRENE	206-44-0	ABN	10		10		10		10	U	10	
PYRENE	129-00-0	ABN	10		10		10		10	U	10	
BENZO (A)		Thuis .	10	U	10	U	10	U	10	U	10	
ANTHRACENE	56-55-3	ABN	10		-	-						
CHRYSENE	218-01-9	ABN	10		10		10		10	U	10	u
DI-N-BUTYLPHALATE	84-74-2	ABN	10		10		10		10	U	10	
BIS (2-ETHYLHEXYL)		1000	10	U	2	J	10	U	10	U	10	
PHTHALATE	117-81-7	ABN	2			_						-
BENZO (B)		1	- 2	2	2	J	0.8	J	1	J	2	J
FLUORANTHENE	205-99-2	ABN	10									
BENZO (A) PYRENE	50-32-8	ABN	10		10		10		10	U	10	U
INDENO (1,2,3-CD)		1	10	0	10	U	10	U	10	U	10	
PYRENE	193-39-5	ABN	10									
BENZO (Q,H,I)		1	10	U	10	U	10	U	10	U	10	u
	191-24-2	ABN	10	U	10	u	10					
-							10	0	10	U	10	U

VOA - Volatile Organic Analysis
ABN - Acid/Base Neutral (semi - volatiles)
PEST - Pesticides/PCB Analysis
Q - Analytical results' (Justifier (listed below).
B - Analyte was detected above the CRDL but below 10X Blank Concentration.
The associated value is an estimated quantity.

H - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise

Site Name and Code: CASTLE DRIVE LANDFILL Case Number: Concentrations: 20266 ug/L Fluor Daniel, inc. Compiled by:

	Orga	nic Traffic No. Sample I.D	FAA 54		FAA 55		FAA 56	
		Martx: Percent Solids	WATER		WATER		WATER	
		Location: and or Sample Description:	GW - 16		GW-17		GW-14	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	O
PHENOL	91-20-3	ABN		J	-	-	-	+
1.4 DICHOROBENZENE	106-46-7	ABN		J	10		10	
NAPHTHALENE	91-20-3	ABN	10				10	
PHENANTHRENE	85-01-8	ABN	10		10		10	
FLUORANTHRENE	206-44-0	ABN	10		10		10	
PYRENE	129-00-0	ABN	10		10		10	
BENZO (A)		1	10	-	10	U	10	U
ANTHRACENE	56-55-3	ABN	10	**				
CHRYSENE	218-01-9	ABN	10		10		10	
DI-N-BUTYLPHALATE	84-74-2	ABN	10		10		10	
BIS (2-ETHYLHEXYL)		1.0.1	10	U	10	U	2	J
PHTHALATE	117-81-7	ABN	10					
BENZO (B)		1.011	10	U	2	J	1	J
FLUORANTHENE	205-99-2	ABN	10			4		
BENZO (A) PYRENE	50-32-8	ABN	10		10		10	
INDENO (1,2,3-CD)		1	10	U	10	U	10	U
PYRENE	193-39-5	ABN	10					
BENZO (Q,H,I)		1.0.1	10		10	U	10	U
PERYLENE	191-24-2	ABN	10	11	10		10	

LEGEND

VOA - Volatile Organic Analysis
ABN - Acid/Base Neutral (semi-volatiles)
PEST - Pescides/PCB Analysis
Q - Analytical results' Qualifier (listed below).
B - Analytical results' Qualifier (listed below).

- The associated value is an estimated quantity.

A - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/kg
Compiled by: Fluor Daniel, Inc. ug/kg Fluor Daniel, Inc.

	Percent S Loca ABOUND RT 0.75 PROUND RT 1.24 PROUND RT 1.29 PROUND RT 1.29 PROUND RT 1.29 PROUND RT 1.29 PROUND RT 1.23 PROUND RT 1.23 PROUND RT 1.24 PROUND RT 1.25 PROUND RT 1.33 PROUND RT 1.34 PROUND RT 1.34 PROUND RT 1.35 PROUND RT 1.35	nic Traffic No. Sample I.D Marix: Percent Solids Location: and or Sample Description:	FAA 43 SOIL		FAA 44 SOIL 76 SS - 02		FAA 45 SOIL 81 SS - 03		FAA 46 SOIL SS - 04		FAA 47 SOIL 83 SS - 05		FAA 48 SOIL 82 SS - 06		FAA 49 SOIL 78 SS - 07	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	0	Concentration	•		72
CO2 BACKGROUND		TIC	4600	JA	The same of the sa	1	-	-	-	-	-	-	Concentration	-	Concentration	. 0
CO2 BACKGROUND	'AT 1.24	TIC		JB		+	-	-	1				1000	JB		
CO2 BACKGROUND	RT 1.39	TIC		JB		+	-	-								18
CO2 BACKGROUND	RT 0.74		10	100	3700	1.0	-	-							- 13	1.0
CO2 BACKGROUND	RT 1.23			-				JB								-
CO2 BACKGROUND	RT 1.40					JB							34	JB		-
POSSIBLE C10H16	RT 20.27					JB	-							-		-
CO2 BACKGROUND	RT 1.25				- 1	3	-									-
CO2 BACKGROUND	RT 1.33					-		JB		JB						-
002 BACKGROUND	RT 0.72	TIC				-	12	JB		1						-
CO2 BACKGROUND	RT 1.36	TIC				-			2900							
CO2 BACKGROUND	RT 1.45	TIC							26	JB		1. 7				
02 BACKGROUND	RT 1.44	TIC				-				-	19	JB		-		-
02 BACKGROUND	RT 0.71	TIC		-		-							10	,		
02 BACKGROUND	RT 1.35	TIC				-				500		, and	- 10		3000	10
				-		-										18
		-		-		-								-	101	

LEGEND

VOA - Volatle Organic Analysis

ABN - Acid/Base Neutral (semi-volatles)

PEST - Pesticides/PCB Analysis

C - Analytical results 'Qualifier (sisted below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

G - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL Case Number:

Concentrations: Compiled by:

Fluor Daniel, Inc.

		Sample I.D Marix ercent Solids Location: and or Sample	FAA 50 SOIL		FAA 51 SOIL 78 SD - 09		FAA 52 SOIL 75 SD - 10		FAA 53 SOIL 77	
COMPOUND NAME	CAS NO.	Description	Concentration	Q	Concentration	0	Concentration	0	Concentration	T =
CO2 BACKGROUND	RT 1.35	TIC		1		-	7	-	Concentration	0
CO2 BACKGROUND	RT 0.73	TIC	13	JB						
CO2 BACKGROUND	RT 1.37	TIC		-	5100		3200	JB	5400	JE
CO2 BACKGROUND	AT 1.25	TIC		-	25	JB				
CO2 BACKGROUND	AT 1.33	TIC		-			11	JB	15	JE
	111 1100	THE T								J
	-	-								

- VOA Volatile Organic Analysis ABN Acid/Base Neutral (semi-volatiles)
- PEST Pesticides/PCB Analysis
- Q Analytical results' Qualifier (listed below).
- B Analyte was detected above the CRDL but below 10XBlank Concentration.
 J The associated value is an estimated quantity.
- A Data for analyte is unusable.
- U The material was analyzed for but was not detected above the level of the associated value.
- UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

 I.C. Tenatively identified Compound

	-	Gampie I.D. Maric			SOL "	-	FAL 45		FAX es		FAX 47	4	IOL .		60L**
	^	Loubon and or Sample	77		SI-W		55-03		85-04 NO		\$5-05	- 1	55-08		85-07
COMPOUND NAME	CAS NO.	QUAS	Concentration	0	Concentration	0	Concentration	Q	Concentration	6	Concentration Q	1	Concentration (0	Concentration
ALANE	AT 2.11	Tic	110	,		F						-		7	
CO OR EATE	RT 7.26	Tic	100000000000000000000000000000000000000	10	300	19	200	10	360		360 /		360 /		410
O ON ESTE		TIC	COLLEGE COMPANY	100	100110000000000000000000000000000000000		112222					п			
AND HITHEAT	ATTIA 22	12	180	10	1600	推	188	3	1300	ij	1760	Ē	1700	Ĭ.	1900
OSS DENE OR	10544-50-0		170	500	120	-								4	
COS CHYGENATED	AT 16.50	TIC										1		=	
SI CARBONLE CO OR ESTE	AT 17.37	TE		J				Н				1		1	
PANOWN FORS	AT19.10	TIC	300		750		380	1	200 /	2	360 1		340 ,	•	\$70
OSS CXYDENATED	RTAIN	TIC	240	J	230	1						7		7	
SE OFFICENATED	RT 25.40	TIC	220	1	150	1	360	J	500 1	4		7		4	
POMATIC	RT 25.74	TK	120	J	120	1				Η	2102	7		7	
MPOUND SE ORYGENATED	REELE	TIC	190	1	- 14	1	120	J	300 4	Ц		1	130 4	4	370
POMATIC	AT 28.00	TIC	2200	J	1100	2					170 J	4		#	
ACCAMEN	AT 2.00	TIC						J			110 J	#		#	
SECHOPPARED SECHOPPARED SECHOPPARED	AT M.S4	TIC					1000	1				1	80 1	4	
STREET, STREET	AT 19.83	TIC					110		790 J			+	100 J		
SS ON GENATED	RT 24.96	TIC					130	2			97 1			+	
POUND STREET	RT 28.26	TIC							100 J		120 J	-	540 J	-	
	RT 25.56	TIC						F	120		120 7	4		7	
ENTOR PHONE	AT 22.00	TIC					-					4		4	
100 mm	AT 34.87	TIC			1				+400			7		4	
	791-20-6	TIC							140 /		220 1	4		#	
- METHYL - OR BOW	913-12-7	TC							130 4			#		#	
PARTIES AND THE PARTIES AND TH	RT25.00 RT26.71	TIC									110 J	1		#	
SS OFFICENATED	AT S M2	TIC									82 11	8		8	
TALENE 17	4660-15-5	TIC		- 1						-		-	150 7	H	

19-Nov-93

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 Concentrations: Compiled by: UG/KG Fluor Daniel, Inc.

	Organi	C Traffic No.		_				union.		-		CHICAGO:	_	-		-
		Sample I.D Marix		_	FAA51		FAA52		FAA53							_
				_	SOIL		SOIL		SOIL							-
	Per	cent Solids	76		78		75		77	A				-		-
		Location: and or Sample Description:	SS-08		SD-09		SD-10		SD-11							
COMPOUND NAME	CAS/SCAN NO	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	0	Concentration	Q	Concentration	T
POSS OXY COMP	5.93	TIC	120	JB	110	JB	200	10	150	JB	THE REAL PROPERTY.	Name of		-		+
POSS ACID OR ESTER	7.32	TIC	530		540		1400		1100			-	-	-		4
OSS OXY COMP		TIC	520		740		680				-			00.0		1
UNKPHTHALATE		TIC I	2000		1900		1900		560							1
POSS GARBOXYLIC OF		TIC I	320		1200		480		1200							4
HOSPHINE OXIDE	19.84/791-28-6	TIC	100		130		120		3900			-		- 1		4
	24.87	TIC I	3200		110		780		230							4
OSS OXY COMP	25.04	TIC I	310		7.10	-	700	-	230	3		100				1
-HOMOPREGNAN	32318-95-9	TIC I	130					-		-						1
STEROL	25 56	TIC I	280		120	1	240	-	510	-						į.
	25.98	TIC	260				220		510	,				-		ш
	26.45	TIC I	260				220	*		-	-	-	-	-		£
INK	26.7	TIC [140	J	120	3	120	1	1200	1		-	-	-		4
	2.03	TIC TIC TIC TIC		9	100			-	1200			-	-	-		μ
	10.90	TIC				100	120	1				-				÷
		TIC				1	93					-	-	-		+
		TIC				18	170			-						÷
		TIC [-	140					-				÷
		TIC [1.3			160					-		-		į.
	15.72	TIC		- 2					89	3	-		-	-		÷
	16.37	TIC [6	95			-		-		÷
OSS OXY	26.25	TIC [100					120			-	-	-		÷
		1		1000		1.00			120	-	-	-	-	-		4

LEGEND

VOA - Volatile Organic Analysis

ABIN - Acid - Base/Neutral analysis (Semi-volatiles)

Pest/PCB - Pesticctie/Polychlorinated Biphenyl analysis

TIC - Tentatively identified Compound

O - Analytical results' Cushifier (fisted below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate of imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/L
Compiled by: Fluor Daniel, Inc.

		nic Traffic No. Sample I.D Marix: ercent Solids Location: and or Sample Description:	WATER GW-16		FAA 55 WATER GW-17		FAA 56 WATER GW-14	
COMPOUND NAME	CAS NO.	CLASS		Q	Concentration	Q	Concentration	Q
CO2 BACKGROUND	RT 0.65	TIC	410	JB				
METHANE -	75-71-8							
DICHLORODIFLUORO	RT 0.78	TIC	22	JB	25	JB	20	JB
HYDRAZINE-	1741-01-1							
TRIMETHYL-OR-ISO	RT 2.19	TIC	5	J				
C02 BACKGROUND	RT 0.65	TIC			420	JB		
C02 BACKGROUND	RT 0.70	TIC			220	JB		
CO2 BACKGROUND	RT 0.69	TIC					43	JB
		-		-		-		-

- UCA Volatile Organic Analysis
 ABN Acid/Base Neutral (semi—volatiles)
 PEST Pesticides/PCB Analysis
 Q Analytical results' Qualifier (listed below).
 B Analyte was detected above the CRDL but thelow 10X Blank Concentration.
 J The associated value is an estimated quantity.
 R Data for analyte is unusable.
 U The material was analyzed for but was not detected above the level of the associated value.
 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
 TIC— Tenatively Identified Compound

H idirectory/filename

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/L
Compiled by: Fluor Daniel, Inc. ug/L Fluor Daniel, Inc.

	Р	nic Traffic No. Sample I.D Marix: ercent Solids Location: and or Sample Description:	FAA 57 WATER		FAA 58 WATER GW-20		FAA 61 WATER GW-12		FAA 62 WATER L-15		FAA 50 WATER GW-13	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	0	Concentration	0
CO2 BACKGROUND	RT 0.65	TIC	250	IR	-	-	-	-				-
CO2 BACKGROUND	RT 0.69	TIC		JB		-	-	-	12	JB		
METHANE-	75-71-8		70	-		JB	-	-	-			
DICHLORODIFLUOR	RT 0.77	TIC	23	JB	10	UD	~	10	-	-		
C02 BACKGROUND	RT.66	TIC	23	UB	300	ID		JB	36	JB		
C02 BACKGROUND	RT 0.48	TIC		-	300	JD	140					
CO2 BACKGROUND	RT 0.59	TIČ		-		-	5	J				
CO2 BACKGROUND	RT.70	TIC		-			44	J				
CO2 BACKGROUND	RT 0.68	TIC	-	-	-	-	79	JB				
	1	1.10		-							2600	JB

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Noutral (semi-volatiles)

PEST - Pesticides/PCB Analysis

Q - Analytical results' Qualifier (listed below).

B - Analytical results' Qualifier (listed below).

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.

U - The material was analyzed for but was not detected above the level of the associated value.

U - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TIC - Tenatively Identified Compound

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: FLUOR DANIEL
Case Number: 20266
Concentrations: UG/L
Compiled by: Fluor Daniel, Inc. UG/L Fluor Daniel, Inc.

COMPOUND NAME		Location:			FAA55 WATER	-	FAA56 WATER	_	FAA57 WATER		AA58 -		FAA61		FAA62	
OMPOUND NAME							mais.		WAIEH	W	ATER		WATER		WATER	
OMPOUND NAME		and or Sample			GW-17		GW-14		GW-19	G	W-20		GW-12		L-15	
	CAS/SCAN NO	CLASS	Concentration	0	Concentration	•		witness.	Concentration							
OSS OXY COMP	3.78	TIC			Concentration	9	Concentration	0	Concentration	9 0	Concentration	Q	Concentration	Q	Concentration	0 0
HOSPHONIC ACID	54543-03-02	TIC		1							5		THE REAL PROPERTY.	-	The state of the s	40
OSS ACID OR ESTER 5	5.37	TIC			4			-		-	- 3	3		1111		1
OSS ALKENE	8.85	TIC		1	4	J				+	-	-	-			
OSS CARBOXYLIC ACIT	7.37	TIC								-	-	-	4	J	THE RESERVE OF THE PARTY OF THE	41
INK II	15 23	TIC I	3				3	3	6 J	-	2		4 .	1		
OSS CARBOXYLIC ACIT		TIC	2							1	- 4	,			2	J
		TIC	26		4	J				1	9	-	-			
NK 5		TIC I	3	J						+	26			_		
		TIC			5					-	20	9				
		TIC F		-	2	J				+-	-	-		- 1		
OSS OXYGENATED 1	5.74	TIC T			8			70.00		+	-	. 1				
OSS CARBOXYLIC ACITE		TIC F			6				4 3	+-	2 .	3				
OSS CARBOXYLIC ACITE		TIC T			2 .			117.5		+	-	-				
XX CARBOXYLIC ACIE	06	TIC F			4 .	1				+		-				
SS CARBOXYLIC ACIT		TIC				200	3	3		+	-	-				
		TIC T				7.9	8			+						
		TIC F					2	3		+	-	-				
		TIC F					2			+-	2 1			4		
		ric F					3		2 1	+	3 1					
		ric F	-				2			+-	3 1					
ENOL 4.4"-BUTYLID 85	Charles of the Control of the Contro						7		3 1	+	3 4					
K 24		ric [5		3 3	+	12 J					
SS OXYGENATED 26		ric [4 .			+						-
SO ON SERVICED DO	2.11	ric T	Name and Address of the Owner, when the Owner,				3 .		22 J 5 J	-						_

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL
Case Number: 20266
Concentrations: UG/L
Compiled by: Fluor Daniel, Inc.

COMPOUND NAME	Ma Percent Sol Locati		FAA57 WATER GW-19		FAA58 WATER GW-20 Concentration		FAA62 WATER 'L-15	FAABO WATER GW-13	a	Concentration	0	Concentration	0	Concentration	0
POSS OXYGENATED POSS CARBOXYLIC C21H36 ALKANE UNK POSS MIXTURE 9 - OCTADECENAMIDE POSS OXYGENATED POSS OXYGENATED POSS OXYGENATED POSS OXYGENATED PHOS ACI DIETHYL	23.37 15.79 15.58 14.72 21.99 2.91 3.54 3.79	TIC	10 4 2	J	2	J	5 3	5 9 44 2 2 3	1						

EGEND

VOA - Volatile Organic Analysis

ABIN - Acid - Base/Neutral analysis (Semi - volatiles)

Pest/PCB - Pesticide/Polychlorinated Biphenyl analysis

TIC - Tentatively identified Compound

Q - Analytical results' Qualifier (pisted below).

B - Analytical results' Qualifier (pisted below).

The associated value is an estimated quantity.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimated or imprecise.

Ste Name and Code: CASTLE DRVE LANDRLL Case Number: 20266

Fluor Deniel, Inc.

		sanic Traffic No. Sample I.D Martx: Percent Solida	SOIL 77		FAA 44 SOIL 76	FAA 45 SOIL	81		FAA 48 SOIL	FAA 47 SOIL	FAA 48 SOIL	FAA 49 SOIL 78
		Location: and or Sample Description:	88-01		SS-02	SS-03			SS-04	SS-05	88-06	SS-07
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration Q	Concentrati	on	Q	Concentration Q	Concentration Q	Concentration Q	Concentration
VINYL CHLORIDE	75-01-4	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 0
METHYLENE CHLORIDE	75-09-2	VOA	1	J	13 U		12		12 U	12 U	12 U	13 0
ACETONE	67-64-1	VOA	13	U	13 U		50 .	J	12 U	12 U	12 U	13 0
1,1 DICHLOROETHANE	75-34-3	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 0
1,2 DICHLOROETHANE	540-59-0	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 U
BENZENE	71-43-2	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 U
TOLUENE	108-88-3	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 U
CHLOROBENZENE	108-90-7	VOA	13	U	13 U		12		12 U	12 U	12 U	13 U
	104-41-4	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 0
XYLENE	1330-20-7	VOA	13	U	13 U		12	U	12 U	12 U	12 U	13 U

LEGEND

VOA - Volatile Organic Analysis
ABN - Acid/Base Neutral (semi-volatiles)
PEST - Pseticides/PCB Analysis
Q - Analytical results' Qualifier (blated below).
B - Analytic was detected above the CRDL but below 10X Blank Concentration.
J - The associated value is an estimated quantity.

U - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected above the level of the associated value.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

ALCOHOLOGY SKING FOR SECRETARIES

Site Name and Code: CASTLE DRIVE LANDFILL

Case Number: Concentrations:

20266 ug/kg

Compiled by:

Fluor Daniel, Inc.

		ic Traffic No. Sample I.D Marix ercent Solids Location: and or Sample Description:	SOIL 76		FAA 01 SOIL 78 SD-09		FAA 52 SOIL 75 SD-10		FAA 53 SOIL 77 SD-11	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
VINYL CHLORIDE	75-01-4	VOA	13	U	13	U	13	U	13	U
METHYLENE CHLORIDE	75-09-2	VOA	13	U	13	U	13	U	1	J
ACETONE	67-64-1	VOA	13	U	13	U	13	U	13	U
1,1 DICHLOROETHANE		VOA	13	U	13	U	13	U	13	U
1,2 DICHLOROETHANE	540-59-0	VOA	13	U	13	U	13	U	13	U
BENZENE	71-43-2	VOA	13	U	13	U	13	U	13	U
TOLUENE	108-88-3	VOA	13	U	13	U	13	U	13	U
CHLOROBENZENE	108-90-7	VOA	13	U	13	U	13	U	13	U
ETHYLBENZENE	104-41-4	VOA	13	U	13	U	13	U	13	U
XYLENE	1330-20-7	VOA	13	U	13	U	13	U	13	U

VOA - Volatile Organic Analysis ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticides/PCB Analysis
Q - Analysical results' Qualifier (listed below).
B - Analyse was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.
U - The material was analyzed for but was not detected above the level of the associated value.
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	Org	anic Traffic No.														_
		Sample LD			FAA44		FAA45		FAA 48		FAA47		FAA 48		FAA 49	_
		Martic			SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	_
		Percent Solids	77		76		81		80		83		82		70	
		Location: and or Sample Description:	SS-01		SS-02		S&-03		SS-04		\$5-05		SS-06		SS-07	
COMPOUND NAME	CAS NO.	CLASS	Concentration	0	Concentration	Q	Concentration	0	Concentration	Q	Concentration	Q	Concentration	0	Concentration	10
PHENOL	91-20-3	ABN	430		430		410		410		400		400			U
1,4 DICHOROBENZENE	106-46-7	ABN	430	U	430	U	410	U	410	U	400	U	400		420	U
	91-20-3	ABN	430		430		410	U	410	U	400	U	400	U	420	U
PHENANTHRENE	85-01-8	ABN	430	U	430	U	410	U	180	J	400	U	400	U	420	U
FLUORANTHRENE	206-44-0	ABN	430	U	430	U	410	U	150	J	400	U	400	U	420	υľ
PYRENE	129-00-0	ABN	430	U	430	U	410	U	210	J	400	U	400	U	420	υ
BENZO (A)																
ANTHRACENE	56-55-3	ABN	430		430		410		43		400		400			U
	218-01-9	ABN	430		430		410		120		400		400		420	
DI-N-BUTYLPHALATE	84-74-2	ABN	430	U	430	U	410	U	410	U	400	U	400	U	430	U
BIS Q-ETHYLHEXY I)														7		
PHTHALATE	117-81-7	ABN	430	U	430	U	430	U	410	U	400	U	400	U	430	U
BENZO (B)																L
	205-99-2	ABN	430		430		410	U	90		400	U	400	U	420	
	50-32-8	ABN	430	U	430	U	410	U	57	J	400	U	400	U	420	U
INDENO (1,2,3-CD)																
PYRENE	193-39-5	ABN	430	U	430	U	410	U	37	J	400	U	440	U	420	U
BENZO (Q,H,I)		1										100		550		
PERYLENE	191-24-2	ABN	430	U	430	U	410	U	43	J	400	U	400	U	420	U
				-	-	-		-	-	-		-	-	-	-	+
																\pm
																F
									1				1			

LEGEND

VOA - Volatile Organic Analysis

ABM - Acid/Base Neutral (semi-volatiles)

PEST - Pasticidae/PCS Analysis

Q - Analytical results' Qualifier (fisted below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.

U - The material was analyted for but was not detected above the level of the associated value.

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Site Name and Code: CASTLE DRVE LANDRILL Case Number: 20286 Concentrations: ugkg

P	Marix	FAA 50 SOIL		FAA 51		FAA 52		FAA 53	-	
	ercent Solida	76				SOIL		SOIL		
	Location:	SS-08	-	70			75			
and of Sample Description				SD-09		SD-10	SD-10			
CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Concentention	To		
1-20-3	ABN	THE RESERVE THE PERSON NAMED IN	_	-	-		_	Concentration	10	
	ABN							430	U	
	ABN									
	ASN					440	U			
06-44-0	ABN					56	J			
29-00-0						130	J			
	1	430	U	420	U	94	J			
8-55-3	ARN							430	-	
						47	J	430	11	
1-74-2						74	J			
	non	430	U	610	U					
7-81-7	ADN							490	U	
	NON	430	U	420	U	520	11	0700	_	
5-00-2	ADM	-				250	-	2700		
				420	U	100				
-02-0	ABN	430	U	420	U					
3-30-6	400					50	9	430	U	
5 39-5 .	ABN	430	U	420	U	40	.			
1.04.0	-					49	-	430	U	
1-24-2	ABN	430	J	420	11		.			
				420	-	45	1	430	11	
100000000000000000000000000000000000000	11-20-3 06-46-7 1-20-3 5-01-8 06-44-0 29-00-0	CAS NO. CLASS 11-20-3 ABN 09-44-7 ABN 1-20-3 A9N	CAS NO. CLASS Concentration 1-20-3 ABN 430 09-46-7 ABN 430 1-20-3 A9N 430 1-20-3 A9N 430 1-20-3 A9N 430 2-01-8 A9N 430 2-01-8 A9N 430 2-00-0 ABN 430 2-00-0 ABN 430 2-55-3 ABN 430 2-55-3 ABN 430 2-55-3 ABN 430 3-51-9 ABN 430 7-81-7 ABN 430 7-81-7 ABN 430 5-99-2 ABN 430 3-32-8 ABN 430	CAS NO. CLASS Concentration Q 11-20-3 ABN 430 U 98-48-7 ABN 430 U 1-20-3 ABN 430 U	CAS NO. CLASS Concentration Q Concentration 1-20-3 ABN 430 U 420 U 420 CONCENTRATION ASS U	CAS NO. CLASS Concentration Q Concentration Q 1-20-3 ABN 430 U 420 U 420 U 1-20-3 ABN 430 U 1-3 A	CAS NO. CLASS Concentration Q Concentration Q Concentration 1-20-3 ABN 430 U 420 U 440 U 440 L	CAS NO. CLASS Concentration Q Concentration Q Concentration Q 1-20-3 1-20-3 ABN 430 U 420 U 440 U 440 U 1-20-3 ABN 430 U 420 U 440 U 440 U 1-20-3 ABN 430 U 420 U 440 U 440 U 1-20-3 ABN 430 U 420 U 440 U 56 J 2-01-8 ABN 430 U 420 U 56 J 2-01-8 ABN 430 U 420 U 94 J 2-01-8 ABN 430 U 420 U 94 J 2-01-9 ABN 430 U 420 U 94 J 1-24-2 ABN 430 U 420 U 74 J 5-99-2 ABN 430 U 420 U 560 U 7-81-7 ABN 430 U 420 U 560 U 5-50 U 7-81-7 ABN 430 U 420 U 560 U 5-50 U 7-81-7 ABN 430 U 420 U 560 U 5-50 U 7-81-7 ABN 430 U 420 U 560 U 5-599-2 ABN 430 U 420 U 560 J	CAS NO. CLASS Concentration Q Concentrat	

17-Nov-93

CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRVE LANDRILL Case Number: 20266

	Organ	nic Traffic No. Sample I.D										_		_		_
				_	FAA 44				FAA 46	FAA 47		FAA 48		FAA 49		
	Marts: 5 Percent Solida			_					SOIL	SOIL		SOIL	SOIL			
Location and o Sample Description			88-01		SS-02		85-03		80	83 88-06		82	78			
		and or Sample Description:							88-04			85-06		88-07		
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	0	Concentration	0	Concentration	-16
CO2 BACKGROUND	RT 0.75	TIC	4800							100.00			CONCENSES	-	CONCENTERED	-
CO2 BACKGROUND	RT 1.24	TIC		JB		-	-	-		10/			1000	JB	-	1
CO2 BACKGROUND	RT 1.30	TIC		JB		-		-							15	5 J
CO2 BACKGROUND	RT 0.74	TIC	- 10	-	3700	1.0										
CO2 BACKGROUND	RT 1.23	TIC				JB		JB								T
CO2 BACKGROUND	RT 1.40	TIC				JB							34	JB		1
POSSIBLE C10H16	RT 20.27	TIC		-												1
CO2 BACKGROUND	RT 1.25	TIC		-	- /	J		-								+
CO2 BACKGROUND	RT 1.33	nc				-		JB	42	JB		Title		200		
CO2 BACKGROUND	RT 0.72	nc				-	12	JB								
CO2 BACKGROUND	RT 1.36	TIC I							2900					0.5		
CO2 BACKGROUND	RT 1.45	TIC							26	JB						1
CO2 BACKGROUND	RT 1.44	TIC	-			-					19	JB				
CO2 BACKGROUND	RT 0.71	TIC		-		-		-					10	J		1
CO2 BACKGROUND	RT 1.35	TIC													3000	JE
		1		-								tist.				JE

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticidae/PCB Analysis

Q - Analytical results' Gualifier (listed below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

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U - The material was analyzed for but was not detected above the level of the associated value.

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Site Name and Code: CASTLE DRIVE LANDFILL

Case Number:

Concentrations: Compiled by:

ug/kg Fluor Daniel, Inc.

Organic Traffic No. Sample I.D Martx: Percent Solide Location: and or Sample Description:		FAA 50 SOL 76		FAA 51 SOIL 78 SD - 09		FAA 52 SOIL 75 SD-10		SO-11		
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q
C02 BACKGROUND	RT 1.35	TIC	13	JB						
C02 BACKGROUND	RT 0.73	TIC		100	5100	JB	3200	JB	5400	JB
C02 BACKGROUND	RT 1.37	TIC			25	JB				
	RT 1.25	TIC					11	JB		JB
C02 BACKGROUND	RT 1.33	TIC							8	7

LEGEND VOA - Volatile Organic Analysis ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticides/PCB Analysis

- Q Analytical results' Qualifier (listed below).

 B Analyte was detected above the CROL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.
- R Data for analyte is unusable.
- U The material was analyzed for but was not detected above the level of the associated value.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

 TIC— Tenatively Identified Compound

	Organi	Park No.	FM-49		744		744		TAL OF		тыа		FMG		TM.
		Mark	90L	_	BOL		SOL.		BOL		BOL.		BOL		804
		Location Location and or Suspin	M-m 77		H-W 7		64-00		M-04		H-0		W-W **		H-0 "
COLPUID HAN	CAS NO.	a.us	Consult offen	•	Construction .	4	Court day	10	Consult day	10	Consession alless	0	Consult about		Consultation
POSS CHLORINATED	M A.II	No.	116	,		Е		E		E		Н			
CO CALLINE CON CAMPORALE	MT.M	10	E	7	-	23		28		21		29		28	419
OM CHICAPATED	WILE.	Tic Tic	.85	4	.80	1		3		17			370	4	1900
COMPOSITION OF	10844-80-9	10		7		7		1	-	T'		-		-	100.1
THE OWNER OF THE PERSON	MT 16.30	16	179	7		F		+		F					
ON CANCOUNTS	RF 17.37	NC.		7		Е		Ε		Е		Е			
CD ON ESTE MEDICINI FORS MOMETC	MT 19.10	THC .	-	4	100000000000000000000000000000000000000	48		9 1	- 20	118	200	J	340	19	379 /
	MT SH. ST	100	V	Ľ		-		\pm		t					
OSS OW ODWATED	MT 38.74	NC NC		,		,	-	1	- 80	4	210				
OSS ON OFWATED	RT SO. 30	The The		Ź	440000	í		,		,	- 60	Ė	130	,	370
OMPOUND OSS OWNERWIND	Man	100		Ļ			1	۳		r	170	,			
MONOCAMION OSS ON GENATED	RT 2.00	TIC		Е		Е		. ,		Е	110	1			
CAPCUMO	MMM	YC .					100	0 2		E			80	J	
HOSPHINE HOSPHINE	MT 19.83	100						0 1	- 76	1			100		
CSS SWODWIED	AT M.M	NC NC		F		F	- "	1	100	,	120		840		
OSS GAMAN	M M.M	100		F		F		F		,		È			
COPING ALCANE	MT 24.16	100		Е		Е		Ε		1	190	I			
CEPHIN ALKANI	RT 30.00	100						E		1					
THE RESERVE	701-20-0	No.				E		+	14	1	- 10	j			
-METHIL -OR HOM	913-12-7 N (8.00	100						=	19	,	110	,			
CAN CONTRACTOR	Man	8						F		F	170				
	M s.m	TIC .		F		F		F		F	- 10	19		19	
SALU		16		F		F		F		F			190	J	
				F		F		F		F					

17-Nov-93

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 Concentrations: UG/KG Fluor Daniel, Inc.

	Organi	Traffic No.	FAASO		FAA51		FAA52								
		Martc		-	SOL	-	SOL	_	FAA53				7		
	Per	cent Solida	76		78	-	75	_	SOL						
		Location: and or Sample		100	SD-09		SD-10		6D-11						
COMPOUND NAME	CAS/SCAN NO.	Description:	Concentration	0	Concentration	0	Concentration	10	Consentation	10					
2000 000 0000				_		_	-	-	CONCENTRATION	4	Concentration Q	Concentration	Q	Concentration	9
POSS OXY COMP POSS ACID OR ESTER	5.93 7.32	TIC		JB			200	JB	150	JB			2		
POSS OXY COMP		пс		JB			1400		1100						+
UNK PHTHALATE		nc		JB			680			JB			Tel		+
POSS CARBOXYLIC OF		nc nc	2000		1900		1900						100		1
PHOSPHINE OXIDE	19.84/791-28-6		320		1200		480		3900	JB					_
POSS OXY AROMATIC		nc I	100		130		120		140						-
POSS CXY COMP		nc I	3200		110	J	780	J	230	J					$\overline{}$
D-HOMOPREGNAN		nc I	310												$\overline{}$
G-SITOSTEROL		nc I	130					_							
POSS OXY COMP MW		nc I	260		120	J	240		510	J					
POSS OXY COMP MW		TIC I	260				220	J							
JNK	26.7	nc t	140		120										
POSS CHLOR HYDRO	2.03	TIC TIC TIC TIC	140	-	100		120	J	1200	J			- 0		
OSS CARBOXY ACID	10.90	nc t			100	,	120								
	19.93	пс					93								
	22.79	пс			77111		170								
	24.15	nc I					140								
	25.99	nc I					160			-			_		
	15.72	пс		2775			100		89				-		
	16.37	пс							95						_
POSS OXY	26.25	nc I				100			120				-	-	
		1				dilino			120	-			-		
						1	pile in i						-	-	

- LEGEND
 VOA Volatile Organic Analysis
 VOA Volatile Organic Analysis (Semi volatiles)
 Pest/PCB Pesticital/Polychiorinated Biphenyl analysis
 TIC Tentatively Identified Compound
 Q Analytical results' Qualifier (listed below).
 B Analytic inscults' Qualifier (listed below).
 B Analytic was detected above the CRCL but below 10X Blank Concentration
 J The associated value is an estimated quantity.
 R Data for analyte is unusable.
 U The material was analyzed for but was not detected above the level of the associated value.
 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266

Concentrations: Compiled by:

ug/L Fluor Daniel, Inc.

Organic Traffic No.

	FAA 54 WATER GW-16		FAA 55 WATER GW-17		FAA 56 WATER GW-14			
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q
VINYL CHLORIDE	75-01-4	VOA	12	U	10	U	10	U
METHYLENE CHLORIDE	75-09-2	VOA	12	U	10	U	10	U
ACETONE	67-64-1	VOA	12	U	10	U	3	J
1,1 DICHLOROETHANE	75-34-3	VOA	12	U	3	J	10	U
1,2 DICHLOROETHANE	540-59-0	VOA	12	U	10	U	10	U
BENZENE	71-43-2	VOA	12	U	2	J	10	U
TOLUENE	108-89-3	VOA	12	U	10	U	10	U
CHLOROBENZENE	108-90-7	VOA	12	U	3	J	10	U
ETHYLBENZENE	104-41-4	VOA	12		10	U	10	
XYLENE	1330-20-7	VOA	12	U	10	U	10	U

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi—volatiles)

 PEST Pesticides/PCB Analysis

 Q Analytical results' Qualifier (listed below).

 B Analyte was detected above the CRDL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.
- R Data for analyte is unusable.
- U The material was analyzed for but was not detected above the level of the associated value.
- UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL Case Number: 20266

Concentrations:

Compiled by:

Fluor Daniel, Inc.

Organic Traffic No.
Sample I.D. FAA 57

	Percent Solids Location: and or		Marix: WATER WATER						FAA 61 WATER GW-12		FAA 62 WATER		FAA 80 WATER GW-13		
COMPOUND NAME CAS I		Sample Description: CLASS	Concentration	0	Concentration	Ιο.	0								
VINYL CHLORIDE	75-01-4	VOA		_	Concent ation	-	Concentration	Q	Concentration	Q	Concentration	O			
METHYLENE CHLORIDE	75-09-2	VOA	10		10	U	3	1	-			-			
ACETONE	67-64 1	VOA	10		10	U	10		10		10				
1,1 DICHLOROETHANE	75-34-3	VOA	10		10	U	10		10		10				
1,2 DICHLOROETHANE	540-59-0	VOA	10		10	U	2		10		10				
	71-43-2	VOA	10		10	U	7		13		10				
TOLUENE	108-88-3	VOA	10 1		10	U	10			_	10				
	108-90-7	VOA	10 (10	U	10		4	J	10				
	104-41-4	VOA	10 (10	U	10		20		10				
	1330-20-7	VOA	10 L		10	U	10		10	_	10				
		IVOA	10 L	J	10	U	10		3	J	10				
EGEND						-	10		17		10	U			

LEGEND

VOA - Volatile Organic Analysis

ABN - Acid/Base Neutral (semi-volatiles)

PEST - Pesticides/PCB Analysis

Q - Analytical results' Qualifier (listed below).

B - Analyte was detected above the CRDL but below 10X Blank Concentration.

J - The associated value is an estimated quantity.

R - Data for analyte is unusable.

U — The material was analyzed for but was not detected above the level of the associated value.

UJ — The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRVE LANDRILL Case Number: 20266

ug/L Fluor Deniel, Inc.

Organic Traffic No.				
Sample I.D	FAA 54	FAA 55	FAA 58	
Martc	WATER	WATER	WATER	
Percent Solids				
Location: and or	GW-16	GW-17	GW-14	
Cample				

		Description:						
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	a	Concentration	Q
PHENOL	91-20-3	ABN	8	J		J	10	U
1,4 DICHOROBENZENE	106-46-7	ABN	3	J	10	U	10	U
NAPHTHALENE	91-20-3	ABN	10	U	10	U	10	U
PHENANTHRENE	85-01-8	ABN	10	U	10	U	10	U
FLUORANTHRENE	206-44-0	ABN	10	U	10	U	10	U
PYRENE	129-00-0	ABN	10	U	10	U	10	U
BENZO (A)								
ANTHRACENE	56-55-3	ABN	10	U	10	U	10	U
CHRYSENE	218-01-9	ABN	10	U	10	U	10	U
DI-N-BUTYLPHALATE	84-74-2	ABN	10	U	10	U	2	J
BIS (2-ETHYLHEXYL)								
PHTHALATE	117-81-7	ABN	10	U	2	J	1	J
BENZO (B)								
FLUORANTHENE	205-99-2	ABN	10	U	10	U	10	U
BENZO (A) PYRENE	50-32-8	ABN	10	U	10	U	10	U
INDENO (1,2,3-CD)								
	193-39-5	ABN	10	U	10	U	10	U
BENZO (G.HJ)								
	191-24-2	ABN	10	U	10	U	10	U
			1		10		10	Ì

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acit/Base Neutral (semi-volatiles)

 PEST Pesticides/PCB Analysis

 Q Analysical results' Qualifier (listed below).

 B Analysical results' Qualifier (listed below).

 J The associated value is an estimated quantity.

 R Data for analyte is unusable.

 U The material was analyzed for but was not detected above the level of the associated value.

 U The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL Case Number: 20266

Concentrations: Compiled by:

ug/L Fluor Daniel, Inc.

		Percent Solide Location: and or			FAA 58 WATER GW-20		FAA 61 WATER GW-12		FAA 62 WATER		FAA 80 WATER GW-13	
COMPOUND NAME	CAS NO.	Semple Description: CLASS	Concentration	Q	Concentration	a	Concentration	0	Concentration	0	Concentration	0
PHENOL	91-20-3	ABN	10		10				-	-	-	-
1,4 DICHOROBENZENE		ABN	10		10		10		10		10	
NAPHTHALENE	91-20-3	ABN	10		10		10				10	
PHENANTHRENE	85-01-8	ABN	10		10		10		3.0		10	
	206-44-0	ABN	10		10		10		10		10	
PYRENE	129-00-0	ABN	10		10		10		10		10	
BENZO (A)		1	10	-	10	-	10	0	10	U	10	U
ANTHRACENE	56-55-3	ABN	10	11	10	11	10				-	-
CHRYSENE	218-01-9	ABN	10		10		10		10		10	
DI-N-BUTYLPHALATE	84-74-2	ABN	10		2		10		10		10	
BIS &-ETHYLHEXYL)		1	10	-	-	-	10	-	10	U	10	U
PHTHALATE	117-81-7	ABN	2	.1	2	1	9.0		1		-	-
BENZO (B)		1	-	-	-	-	UE	3	- 1	3	2	3
	205-99-2	ABN	10	u	10	11	10	11	10	**		
BENZO (A) PYRENE	50-32-8	ABN	10		10		10		10		10	
INDENO (123-CD)					10	_	10	-	10	-	10	U
PYRENE	193-39-5	ABN	10	U	10	11	10	**	10	**		
BENZO (G,H,I)					10	-	10	0	10	U	10	U
PERYLENE	191-24-2	ABN I	10	U	10	11	10	11	10	2.5	10	
					10	-	10	-	10	_	10	-

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi-volatiles)

 PEST Pesticides/PCB Analysis

 Q Analysical results' Qualifier (listed below).

 B Analysis was detected above the CRUL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.

 R Data for analysis is unusable.

 U The material was analyzed for but was not detected above the lavel of the associated value.

 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/L

Organic Traffic No.

Compiled by: Fluor Daniel, Inc.

	P	Sample I.D Marix: ercent Solids Location: and or Sample Description:	WATER		FAA55 WATER GW-17		GW-14	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q
C02 BACKGROUND	RT 0.65	TIC	410	JB				
METHANE -	75-71-8							
DICHLORODIFLUORO	RT 0.78	TIC	22	JB	25	JB	20	JB
HYDRAZINE-	1741-01-1							
TRIMETHYL-OR-ISO	RT 2.19	TIC	5	J				
C02 BACKGROUND	RT 0.65	TIC			420	JB		
C02 BACKGROUND	RT 0.70	TIC			220	JB		
CO2 BACKGROUND	RT 0.69	TIC					43	JB
		-						

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi-volatiles)

 PEST Pesticides/PCB Analysis

 Q Analytical results' Qualifier (listed below).

 B Analyte was detected above the CRDL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.

 R Data for analyte is unusable.

 U The material was analyzed for but was not detected above the level of the associated value.

 LU The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

 TIC- Tenatively Identified Compound

Site Name and Code: CASTLE DRIVE LANDFILL
Case Number: 20266
Concentrations: ug/L

Compiled by:

Fluor Daniel, Inc.

Orga	nic Traffic No.		
	Sample I.D. FAA 54	FAA55	FAA56
	Marix WATER	WATER	WATER
	Percent Solids		
	Location: GW-16 and or	GW-17	GW-14

		Description:			The second secon			
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	Q	Concentration	Q
CO2 BACKGROUND	RT 0.65	TIC	410	JB				
METHANE -	75-71-8			-		100		
DICHLORODIFLUORO	RT 0.78	TIC	22	JB	25	JB	20	JB
HYDRAZINE-	1741-01-1							
TRIMETHYL-OR-ISO	RT 2.19	TIC	5	J	and the second	1000		
CO2 BACKGROUND	RT 0.65	TIC			420	JB		
CO2 BACKGROUND	RT 0.70	TIC			220	JB		
C02 BACKGROUND	RT 0.69	TIC					43	JB

- LEGEND

 VOA Volatile Organic Analysis

 ABN Acid/Base Neutral (semi-volatiles)

 PEST Pesticides/POB Analysis

 Q Analytical results' Qualifier (listed below).

 B Analyte was detected above the CRDL but below 10X Blank Concentration.

 J The associated value is an estimated quantity.

 R Data for analyte is unusable.

 U The material was analyzed for but was not detected above the level of the associated value.
- UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise. TIC- Tenatively Identified Compound

Site Name and Code: CASTLE DRIVE LANDFILL

Case Number: Concentrations: Compiled by:

Fluor Daniel, Inc.

Organic Traffic No.						-
Sample I.D	FAA 57	FAA 58	FAA 61	FAA 62	FAA 80	
Marix:	WATER	WATER	WATER	WATER	WATER	
Percent Solids						
Location: and or Sample	GW 19	GW-20	GW-12	L-15	GW-13	

- Name -		Description:			Lanca de la constante de la co							
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	a	Concentration	a	Concentration	Q	Concentration	Q
CO2 BACKGROUND	RT 0.65	TIC	250	JB					12	JB		
CO2 BACKGROUND	RT 0.69	TIC	78	JB								
METHANE-	75-71-8				18	JB						
DICHLORODIFLUOR	RT 0.77	TIC	23	JB			22	JB	36	JB		
CO2 BACKGROUND	RT.66	TIC			300	JB	140	JB		0.00		
C02 BACKGROUND	RT 0.48	TIC	100				5	J				
C02 BACKGROUND	RT 0.59	TIC					44	J				
C02 BACKGROUND	RT.70	TIC				200	79	JB				
C02 BACKGROUND	RT 0.68	TIC									2600	J B

LEGEND
VOA - Volatile Organic Analysis
ABN - Acid/Base Neutral (semi-volatiles)
PEST - Pesticides/PCB Analysis

Q — Analytical results' Qualifier (listed below).
B — Analyte was detected above the CRDL but below 10X Blank Concentration.
J — The associated value is an estimated quantity.
R — Data for analyte is unusable.

U — The material was analyzed for but was not detected above the level of the associated value.

U — The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TIC — Tenatively Identified Compound

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: FLUOR DANEL Case Number: 20266 Concentrations: UQA. Compiled by: Fluor Daniel, Inc. UQ/L Fluor Daniel, Inc.

		Sample LD	FAASA	_	FAA55	_	FAA56							
			WATER		WATER	_	WATER		FAA57	FAA58		FAA61	FAA62	
	Pe	rcent Solide		_	MAICH	-	MAIER	-	WATER	WATER		WATER	WATER	
		Location:			GW-17	-	GW-14	_	OH					
		- and or Sample Description:			- II		DW-14		GW-19	GW-20		GW-12	L-15	
COMPOUND NAME	CAS/SCAN NO		Concentration	Q	Concentration	Q	Concentration	0	Concentration Q	Concentration	0	Concentration C	Concentration	_
POSS OXY COMP	2.78	пс	1	J		-				THE RESERVE AND ADDRESS OF	-	Concens ation C	Concensation) n
PHOSPHONIC ACID	54543-03-02	nc		J	4	J		-		5	J			4
POSS ACID OR ESTER	5.37	mc		J		J		-			-			1
POSS ALKENE	6.85	mc		J		-					-	4 3		1
POSS CARBOXYLIC AC	17.37	mc I		J			3 .			-	-	4 3		
UNK	15.23	mc I		J		_	3 ,	-	6 J	2	J			2
POSS CARBOXYLIC AC	116.89	mc I		13	4	1					-			1
UNK	24.99	mc		J	-	-		-			J		-	
UNK	5.85	TIC	3	-	5					26	1			
POSS OXYGENATED	11.19	nc I			2									1
POSS OXYGENATED	11.27	nc I		\vdash	8									I
POSS OXYGENATED	15.74	nc I		-	6					2	J			1
POSS CARBOXYLIC AC		mc I		-	2				4 J					T
POSS CARBOXYLIC AC	16.86	nc I		-	4									
POXX CARBOXYLIC ACI	8.06	TIC I		-	•	J					-			Т
POSS CARBOXYLIC AC		mc I		\vdash			3 1				3.00			
JNK		nc I		\vdash			8 3							Т
C14H30 ALKANE	12.48	nc l		\vdash		_	2 J			2				1
15H32 ALKANE	13.56	nc I		\vdash			2 J			3				1
16H34 ALKANE	14.60	nc I		-			3 1		2 J	3	J			1
		nc I		\vdash			2 J			3	J			+
HENOL.4,4'-BUTYLID		nc l		\vdash			7 J		3 1	12	J			+
		nc l					5 J							+
		nc -					4 J		22 J					+
OUG OATGENATED	20.11	IIIC I				PATRICI	3 J		5 J		1		1	-

ORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 Concentrations: UQL Fluor Deniel, Inc.

	Percent Solida Location and or		WATER		FAA58 WATER		FAA62 WATER		FAA60 WATER						
	P	Percent Solids Location Location and or Sample Description				-	PINIEN	-	MAIEH						
	ND NAME CAS/SCAN NO. CI				GW-20		1-15		GW-13						
COMPOUND NAME	CAS/SCAN NO		Concentration	a	Concentration	0	Concentration	0	Concentration	_		_		_	
POSS OXYGENATED	22.00	mc .		L		-	Composite at Roll	-	Concentration	a	Concentration	Q	Concuntration	0	Concentration
POSS CARBOXYLIC		nc l		1 1											-
POSS CARBOXYLIC	15.79 TIC 15.58 TIC 14.72 TIC 21.99 TIC		1												
21H36 ALKANE	15.58 TIC 14.72 TIC 21.99 TIC		13				100				-		-		
JNK POSS MIXTURE	15.58 TIC 14.72 TIC 21.99 TIC 2.91 TIC 3.54 TIC		-	2	J				003		-		-	-	
-OCTADECENAMIDE	14.72 mc 21.99 mc 2.91 mc		-			5			7. 1				_		
OSS OXYGENATED	21.99 TIC 2.91 TIC 1.54 TIC 1.79 TIC		-		100	3	J	1000					_		
OSS OXYGENATED		21.99 TIC 291 TIC 1.54 TIC 1.79 TIC		-		100			5	J				_	
									9			-			
OSS OXYGENATED						500		- 5	44			-			
HOS ACI DIETHYL									2			-		-	
	DSG-02-75.2 ITC					55		Total Control	3						
	1.54 TIC 1.79 TIC 1.91 TIC						100		-		-				
									-		-				
							100		-		-		-		
	3.91 TIC				200				-	-	-				
	598-02-7 5.2 TIC		00.6		77				-		-				
									-				100		
			-						-						
							-		-						
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08-Dec-93

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRVE LDFL
Case Number: 20266
Concentrations: UG/L
Compiled by: FLUOR DANEL

	Inorga	nic Traffic No.		-						_						
		Sample I.D	MFAP70		MFAP71		MFAP72		MFAP73	-	MFAP74	_	MFAP77	-	MFAP78	_
			WATER		WATER		WATER		WATER		WATER	-	WATER		WATER	_
		Percent Solids											PINIEN	70.00	MAIEN	-
		Location: and or Sample Description:	GW-16		GW-17		GW-14		GW-19		GW-20		GW-12		L-15	
COMPOUND NAME	CAS NO.	CLASS	Concentration	a	Concentration	a	Concentration	Q	Concentration	Q	Concentration	0	Concentration	0	Concentration	ol o
ALUMNUM	7429-90-5	INO	215		202		44	u	44		57.6	+		-		+
ANTIMONY	7440-36-0	INO	23	U	23	U	23		23			U	227			U
ARSENC	7440-38-2	INO	10.5	J		UJ		UJ	3.6			LU				U
BARUM	7440-39-3	INO	90.5		76.2	-	47.7		70.1		46.8		771			U
BERYLUUM	7440-41-7	INO	1	U	1	u		U		U		U				U
CADMUM	7440-43-9	INO	3	U	3	U		Ü		Ü		Ü		U		U
CALCIUM	7440-70-2	INO	227000	200	184000		151000		384000	-	142000		150000	U		U
CHROMUM	7440-47-3	INO	6.3		6.2			U		U		U		U	169	
COBALT	7440-48-4	INO	34		6	U		U		u		U	16.4	U		U
COPPER	7440-50-8	INO	10.7		11.9		6		13.6	-		Ü	10.4			U
IRON	7439-89-6	INO	9550	J	179	J	324		113	.1	96.2		814			U
LEAD	7439-92-1	INO	1	U	2.5		1			u		ů	814	3		U
MAGNESIUM	7439-95-4	INO	26800	0,0	25300		27200		44700		25700	-	13100			
MANGANESE	7439-96-5	INO	2250		105	J	588	J	885	J	552	1	1230		171	UJ
MERCURY	7439-97-6	INO	0.2	U	0.2	U	0.2	U	0.2		0.2		0.2		0.2	
NCKEL	7440-02-0	INO	19.4		7	U	7	U	7			U	61.2			U
POTASSIUM	7440-09-7	INO	1990	1000	1510		2680		3630		2930		1750		248	
SILVER	7782-49-2	INO	2		2		2	U	2	U		U	2.1	11.1		LUI
SODIUM	7440-22-4	INO		UJ	8.6	7	7	UJ	7	UJ		LUJ		UJ		UJ
The state of the s	7440-23-5	INO [73300		159000	200	368000		364000		351000	-	78700	-	2220	
HALUUM	7440-28-0	INO		UJ	4	U	4	U	40	LU		U	4	11		U
ANADIUM	7440-62-2	INO	5	U	6.6	В	5	U	5			Ü	21.4	-		U
anc	7440-66-6	INO	6.8	- 3	47		3.9		6.1		4.4		16			U
CYANDE		INO	10	UJ	10	UJ	10	UJ	10	UJ		UJ		111		LO

- LEGEND
 INO Inorganic
 Q Analytical results' Qualifier (listed below).
 B Analytical results' Qualifier (listed below).
 B Analytic was detected above the CRDL but below SX Blank Concentration.
 J The associated value is an estimated quantity.
 R Data for analytic surveyable.
 U The material was analyzed for but was not detected above the level of the associated value.
 UJ The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 UG/KG FLUOR DANIEL

	Inorg	anic Traffic No.						-		-		-		_		-
		Sample I.D			MFAP60		MFAP61		MFAP62	-	MFAP63	-	MFAP64	-	MFAPES	_
		Marb:		77	SOIL	-	SOIL		SOIL	-	SOIL	-	SOIL	_	SOIL	_
		Percent Solids	79.2		79.4		83.6		82.1	-	84.6		84.3	-	79.	_
		Location: and or Sample Description:	SS-01		65-02		SS-03		SS-04		SS-05		65-06		BS-07	
COMPOUND NAME	CAS NO.	CLASS	Concentration	Q	Concentration	a	Concentration	Q	Concentration	Q	Concentration	Q	Concentration	Q	Concentratio	n C
ALUMNUM	7429-90-5	INO	26200	J	38800	J	24500		28700		-	-		-		+
ANTIMONY	7440-36-0	INO	4.8	UJ	4.9			UJ		-	31300		14100	J	27500	
ARSENC	7440-38-2	INO	6.6		5.6		6		5.1	-	4.5	UJ.	4.5	UJ		8 U.
BARUM	7440-39-3	INO	205		208		261		259	-	215	-	1.4		4.5	
BERYLUUM	7440-41-7		1		1.2		0.83		0.95	-		-	63.5		151	
CADMUM	7440-43-9	INO	0.72	В	0.81	В	0.48		0.62	0	0.93	-	0.53		0.92	
CALCIUM	7440-70-2		124000	J	15000	J	119000		91300		122000		0.73		0.57	
CHROMUM	7440-47-3	INO	23.7	J	34.9	J	22.3		24.5		29.1		75500		84600	
COBALT	7440-48-4	INO	8.7		7.8		10.6	-	12.3	-	29.1	3	7,3	J	28.1	
COPPER	7440-50-8	INO	21.8		16.3		11.4		17.3	-	14.6		6.7		6.7	
RON	7439-89-6		17700	1100	21400		15300		17500		18100	-	7.6	,	11.4	
LEAD	7439-92-1	INO	19.2	, week	14.9		15.4		55.8		20.9	-	12.5	-	16500	
MAGNESIUM	7439-95-4	INO	4060	7	5290	J	3610		4050	-	4410	-	6240	-	14.5	
MANGANESE	7439-96-5	INO	874		729		995		1480	1	723		320		4130 618	
MERCURY	7439-97-6	INO	. 0.21	J	0.13	UJ	0.15	J	0.17	1	0.12		0.13			
	7440-02-0	INO	15.9		14.8		19.2		19.2		16		17.7	•	0.23	
POTASSIUM	7440-09-7	INO	2600	J	4130	J	1770		2440	-	2640	-	2130	-	13.1	
	7782-49-2	INO	1.4		2.3	1	1.4	J	1.9	1	1.4		0.95		2420	
NLVER	7440-22-4	INO	0.76	U	0.76	U	0.72	U	0.73		0.71		0.71		1.1	
MUNDO	7440-23-5	INO	183	15.00	209		140		265		468	-	553	-	0.75	
HALUUM ANADUM	7440-28-0	INO	1.8		1,8	U	1.7	U	1.7	J	1.7	u	2.1		246	U
CONTRACTOR OF THE PARTY OF THE	7440-62-2	INO	47.4		65.8	J	49.2		57.5		53.3	-	1.4			
INC	7440-66-6	INO	55.6		73.7	J	41.4	200	79		59		74.7	-	52.2	
CYANDE		INO	0.63	U	0.63	U	0.6	U	0.61	1	0.59	11	0.59		0.63	

LEGEND
INO – Inorganic
O – Analytical results' Qualifier (listed below).
B – Analytical results' Qualifier (listed below).
J – The associated value is an estimated quantity.
R – Data for analyte is unusable.
U – The material was analyzed for but was not detected above the level of the associated value.
UJ – The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL Case Number: 20266 Concentrations: UG/KG UQ/KQ FLUOR DANIEL

	Inorga	anic Traffic No.		_										
	MFAP66		MFAP67		MFAP68		MFAP62							
Martx: Parcent Solida			78.1		SOIL 82.3		50IL 71.3		50L 79.1					8
											-			ı
		Location: and or Sample Description:	SS-08		SD-09		SD-10		SD-11					
COMPOUND NAME CAS NO.		CLASS	Concentration Q		Concentration Q		Concentration Q		Concentration Q		Concentration Q	Concentration Q	Concentration C	_
ALUMNUM	7429-90-5		32000	J	19900	J	12600	1.	17200	-				ä
ANTIMONY	7440-36-0	INO	4.9	UJ		UJ		UJ		UJ				
ARSENC	7440-38-2	INO	5.1		11.7	100	5.6		4.8	LIJ.				
BARUM	7440-39-3	INO	145		69.4	_	87.6		247	-				a
BERYLUUM	7440-41-7	INO	1		0.77		0.38	-	0.54	-				Ē
CADMUM	7440-43-9	INO	0.83	В	0.49		0.56	111	0.63	-				
CALCIUM	7440-70-2	INO	106000	J	236000		220000		96900	B				
CHROMUM	7440-47-3	INO	29.9	J	64.1		15.6		16.4	-				
COBALT	7440-48-4	INO	8.4		6.5		6	-	10.2	-				Ē
COPPER	7440-50-8	INO	20.6		9.2		9.7		8.2					į.
IRON	7439-89-6	INO	19800		18900		11800		12000	-				8
LEAD	7439-92-1	INO	15.5		15.5	100	14.4		15.5					Ē
MAGNESIUM	7439-95-4	INO	5290	100	5190	900	2850		2790					4
MANGANESE	7439-96-5	INO	916		378		854		947					ä
MERCURY	7439-97-6	INO	0.15	7	0.15	J	0.19	J	0.13					4
NCKEL	7440-02-0	INO	14.1	-	14.7	TOTAL D	14.2		15.3	-				4
POTASSIUM	7440-09-7	INO	3270		2540		1300		1110					4
SELENUM	7782-49-2	INO	1.4	7	0.97	UJ	1.1	LU		UJ				4
SILVER	7440-22-4	INO	0.77	U	0.73	U	0.84		0.76					4
SOCIUM	7440-23-5	INO	348		733		332		355	-				4
THALUUM	7440-28-0	INO	1,8	U	1.7	U	2	u	1.8	11				4
VANADIUM	7440-62-2	INO	56.6		66		33.2		37.1	-				4
ZNC	7440-66-6	INO	59.6	11.5	66.4	0.0	39.8		33					4
CYANDE		INO	0.64	U	0.61	U	0.7	u	0.63	11				4

- LEGEND
 INO Inorganic
 Q Analytical results' Qualifier (listed below).
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 J The associated value is an estimated quantity.
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INORGANIC CHEMICAL DATA SUMMARY

Site Name and Code: CASTLE DRIVE LDFL
Case Number: 20266
Concentrations: UG/L
Compiled by: FLUOR DANEL

	Inorgani	c Traffic No.														1.0
	MFAP96													- 3		
Martx			WATER									100				
Percent Solids Location and or Sample Description			GW-13													
COMPOUND NAME	CAS NO.	CLASS	Concentration	0	Concentration	Q	Concentration	a	Concentration	Q	Concentration	0	Concentration	Q	Concentration	0
ALUMNUM	7429-90-5	INO	44													
ANTIMONY	7440-36-0	INO	23	U												
ARSENC	7440-38-2	INO	6.2													
BARUM	7440-39-3	INO	25.2													
BERYLUUM	7440-41-7	INO		U												
CADMUM	7440-43-9	INO		U												
CALCIUM	7440-70-2	INO	460000													
CHROMUM	7440-47-3	INO		U												_
COBALT	7440-48-4	INO		U												
COPPER	7440-50-8	INO	10.2			_										_
IRON	7439-89-6	INO	172									_				_
LEAD	7439-92-1	INO		nn				_				_				-
MAGNESIUM	7439-95-4	INO	144000			_		_				_				-
MANGANESE	7439-96-5	INO	877					-		-		_				-
MERCURY	7439-97-6	INO	0.2			-		-				_		_		-
NCKEL	7440-02-0	INO		U		-		-		-		_			_	-
POTASSIUM SELENUM	7440-09-7	INO	11500	UJ		-		-								
	7440-22-4	INO		03		-		-			-	_				
SILVER	7440-23-5	INO	300000					-				_		-		
THALUUM	7440-23-5	INO		UJ	-			-								
VANADIUM	7440-28-0	INO		U			-	-			-	-				
ZINC	7440-66-6	INO	8.6									_				$\overline{}$
CYANDE	1440-00-0	INO		UJ												\vdash
VINITUL		1110	10		THE RESERVE OF THE PARTY OF THE	_	-	_		-	-	_		_		_

- LEGEND
 INO Inorganic
 Q Analytical results' Qualifier (fieled below).
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 J The associated value is an estimated quantity.
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INORGANIC DATA QUALITY ASSURANCE REVIEW

Site Name:

Castle Drive LDFL

Site Code:

20226

Case Number: Laboratory:

AATS -- Broken Arrow, Ok.

Water Samples:

MFAP70, 71, 72, 73, 74, 77, 78, 96.

The data package consisted of eight water samples analyzed for total metals and cyanide.

- Analytical Parameters: All samples were analyzed using low concentration methods.
- 2. Holding Times: Holding time limits were reported as not having been exceeded.
- 3. Calibration Verification: calibration verifications were reported to be within control limits.
- CRDL Standards: the following CRDL standards were out of control limits: silver and arsenic.
 Positive hits within the affected range were "j" due to CRDL standard criteria.
- 5. Blanks: calibration and prep blank results associated to a particular group of samples are used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Typically, if sample concentration is greater than five times a blank value that is not considered a common lab artifact, no qualification is needed. If the reported value is less than stated above, qualifications are applied in accordance with guidance. No field blank/trip blank/rinsate blank/were reported to be associated with this SDG. Lab blanks as follows were reported as containing contamination greater than the IDL, but less than the CRDL: cadmium, lead, selenium, sodium & vandium. Sodium in sample 78 & selenium in sample 77 and vanadium in sample 71 were qualified as per guidance.
- Matrix Spike Recoveries: silver was flagged by the lab with an "N" qualifier due to %R out of control limits. The data reviewer flagged these data "j", estimated.
- 7. Duplicates: Laboratory duplicates were flagged with "*" by the lab indicating the RPD was out of control limits. The following data were reportedly affected: iron. Affected data were qualified "j". MFAP72 & 74 were reportedly field duplicates of each other. Although no gross variations were reported in the field duplicate pairs, previous data reviewers recommended the qualification of iron due to duplicate criteria.
- 8. Laboratory Control Samples: No qualifications were performed due to LCS.
- 9. ICP Interference Check Sample (ICS): ICS results were within control limits.
- 10. ICP Serial Dilution: manganese was qualified due to ICP serial dilution criteria.
- 11. Method of Standard Addition: No qualifications performed due to MSA criteria.
- Overall Assessment: Some laboratory duplicate results were out of control limits. Blank concentrations were above the IDL for some analytes. Matrix spike recoveries were out of

control limits for silver. The lab duplicate for iron exceeded control limits. FAA analytical spikes were out of control limits for arsenic (samples 70, 71, 72, 73, 74, & 96), lead (for sample 96), selenium (for samples 78 & 96), & thallium (for samples 70, 73, & 96). Some cyanide sample were qualified as estimated because they were not properly preserved. Other technical requirements appear to have been met.

INORGANIC DATA QUALITY ASSURANCE REVIEW

Site Name: Site Code: Castle Drive LDFL

Site Code: Case Number:

20226

Laboratory:

AATS -- Broken Arrow, Ok.

Soil Samples:

MFAP59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69.

The data package consisted of eleven soil samples analyzed for total metals.

- 1. Analytical Parameters: All samples were analyzed using low concentration methods.
- 2. Holding Times: Holding time limits were reported as not having been exceeded.
- Calibration Verification: All initial calibration verification results were within control limits. All
 continuing calibration verifications were reported to be within control limits.
- CRDL Standards: the following CRDL standards were out of control limits: antimony and selenium. Positive hits within the affected range were "j" due to CRDL standard criteria.
- 5. Blanks: calibration and prep blank results associated to a particular group of samples are used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Typically, if sample concentration is greater than five times a blank value that is not considered a common lab artifact, no qualification is needed. If sample concentration is greater than ten times a blank value and is considered a common lab artifact, no qualification is needed. If the reported value is less than stated above, qualifications are applied in accordance with guidance. No field blank/trip blank/rinsate blank/ were reported to be associated with this SDG. Lab blanks as follows were reported as containing contamination greater than the IDL, but less than the CRDL: aluminum, antimony, cadmium, copper, iron, lead, potassium, selenium, silver, & thallium. Results > CRQL but less than 5x the blank were affected in cadmium. Affected samples qualified as per guidance.

Some copper blanks reportedly were subject to interference which resulted in a negative value. The copper fraction was qualified as "j" in samples 64 & 69 due to this criteria.

- 6. Matrix Spike Recoveries: Antimony & mercury were flagged by the lab with an "N" qualifier due to %R out of control limits. The data reviewer flagged these data "j", estimated. Previous reviewers rejected antimony data due to the extremely low %R. However, since the sample result was below detection limits the data reviewer believes that a "j" for antimony samples is more appropriate.
- 7. Duplicates: Laboratory duplicates were flagged with "*" by the lab indicating the RPD was out of control limits. The following data were reportedly affected: aluminum, calcium, chromium, & selenium. Affected data were qualified "j". MFAP59 & 60 were reportedly field duplicates of each other. magnesium, potassium, vanadium, & zinc were qualified in samples 59 & 60 due to gross variation in sample results. Selenium sample results are qualified as estimated due to the exceedance of the control limit.

- 8. Laboratory Control Samples: No qualifications were performed due to LCS.
- 9. ICP Interference Check Sample (ICS): ICS results were within control limits.
- 10. ICP Serial Dilution: no qualifications were performed due to ICP serial dilution criteria.
- 11. Overall Assessment: Some laboratory duplicate results were out of control limits. Blank concentrations were above the IDL for some analytes. Matrix spike recoveries were low for mercury and antimony. Field duplicate results reported required qualification of some data. The lab duplicate for selenium exceeded control limits. Other technical requirements appear to have been rest.